



NOAA P-3 N43RF
SALLJEX 2003
FLT # 6



Flight ID: I030122

<u>Sensor or system</u>	<u>Number or Name</u>
INE	1
Accelerometer	1
Temperature Probe	2
Dew Point Probe	2
Altitude (for vertical wind)	Pressure Altitude
Static Pressure	Rosemount Fuselage
Dynamic Pressure	Rosemount Fuselage
Time Source	Micro 99
Constants File	CO3031.CON

Take off: 1904Z

Land: 0316Z

Notes:

There was a time gap from 192400 - 193400

The RA-159 altimeter was substituted with the RA-232 from 190101 -190630 (take off) and 031600 - 032900 (landing) due to spiking.

All other instruments worked optimally during the flight.

The APN-159 was used for surface pressure calculations.

The aircraft INE positions were renavigated with respect to GPS.

SPECIAL NOTE!!!

Locations 80, 81 and 82 of record five on the standard tape contain vertical ground, vertical air and vertical speeds, respectively, computed using Dave Jorgensen's vertical wind algorithm.

It is recommended that these values be used for vertical wind analysis.

	Takeoff	Landing
Aircraft Static Pressure	960.6 mb	962.3 mb
Corrected Tower Pressure	1005.1 mb	1006.1 mb

Flight Director:

Paul Flaherty

Phone #:

(813) 828-3310 ext. 3094

Flt ID: 030122I	From: SLVR	To: SLVR
Flt No: 03-027	Blk In: 0333 z	ATA: 0326 z
ETD: 19 z	Blk Out: 1852 z	ATD: 1904 z
ETE: 9 + 00	Blk Time: 8.7 0+41	Flt Time: 8.4 0+22
Sponsor Org: JOSS / NSSL	Program: SAUJEX	Purpose: Flt #6 MCS

AOC Personnel

AC: TERBESZ	Sys Eng: LYNCH ✓
CP: FAGGART / SILAIT	Data Sys: SANS Souci
Nav: ADLER / BRAKOB ✓	Radar:
FE: FLOYD / TORREY	GPS/BT:
FD: FLAHERTY / SHEPHERD ✓	Cld Phys:
Avionics: RODGERS ✓	TONG ✓

Participating Scientists / Visitors / AOC

Name (Last, First)	Activity on Aircraft	Affiliation
DOUGLAS, M ✓	PI	NOAA / NSSL
ZIPSER, E ✓	RADAR	UNIV of UTAH
NICOLINI, M ✓	ORBS	UNIV of B.A.
SAULO, C ✓	"	"
VIDAL, L ✓	"	"
DEMARIA, E ✓	"	UNIV of UTAH
GARRARD, R ✓	"	UNIV of CHILE
ALDUMATE, J ✓	"	AASANA

Proposed/Actual Mission Remarks (Recco, Fixes, Storm, PENET, NHOP #)

93
52
41

U.S. Dept. of Commerce / NOAA / Aircraft Operations Center

ADCFW2

Flt ID:

030122I

Time Off:

1904 z

Time On:

0326 z

	A/C (Take Off)	Wx Station (Take Off)	A/C (Land)	Wx Station (Land)
Pressure	960.6	29.68 ^{1005.1}	962.3	29.7 ^{1006.1}

	Number	Data Disposition / Date / Quality
Flt Lvl Tapes	2	
Radar Tapes	1	
Cloud Physics Tapes		
Video Tapes	4	
AXBT		
AXCP		
AXCTD		
Dropsondes		

Video					
	Forward	Left Side	Right Side	Down	Remarks
Time On					
Time Off					
Rate					

Remarks

ASM Ø15

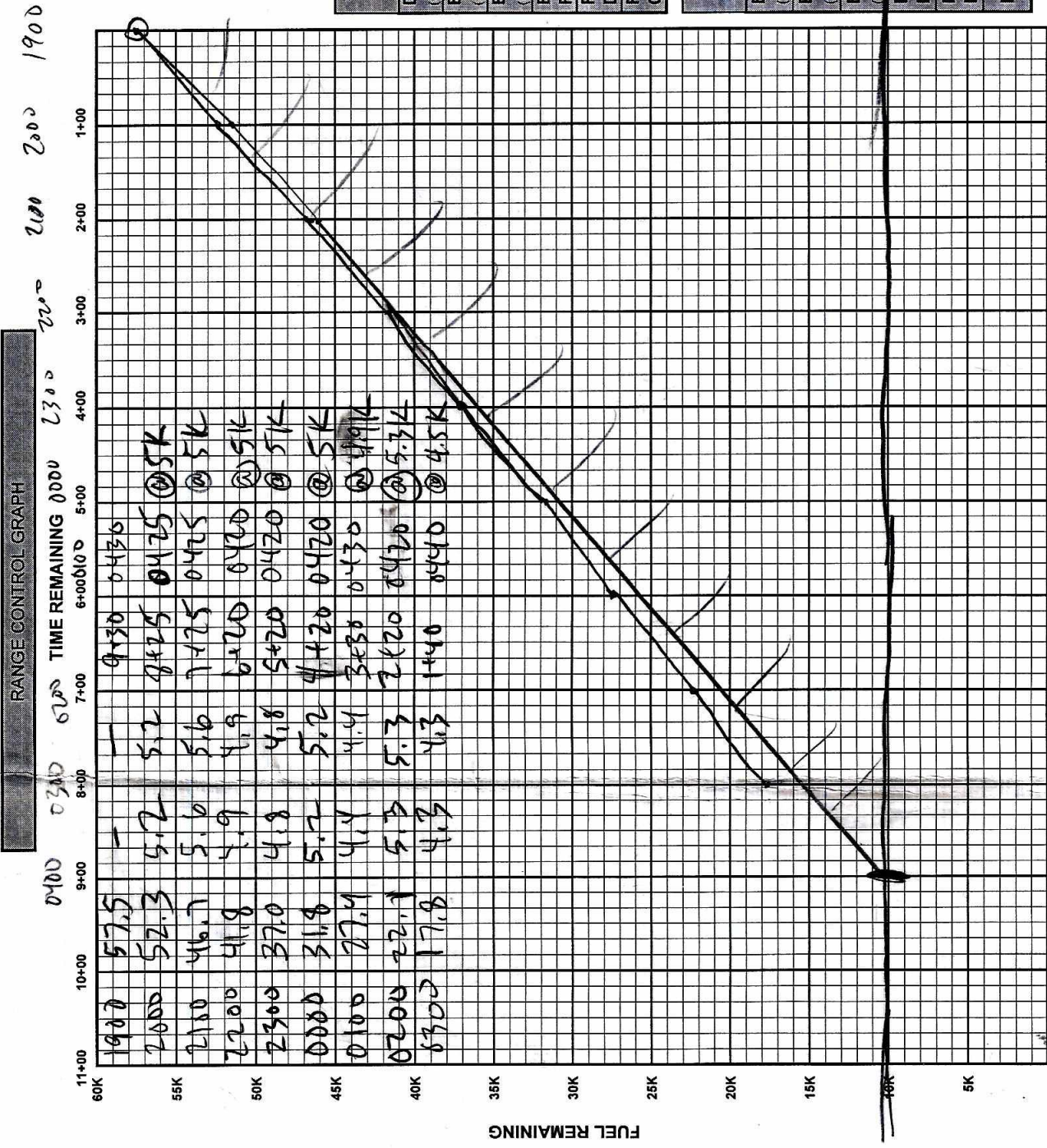
1930 - DATA STATION down

255

6030

MISSION PREFLIGHT LOG										NAVIGATOR		AIRCRAFT COMMANDER		FLIGHT DIRECTOR		SCHEDULED / ACTUAL TAKEOFF Z				DATE OF TAKEOFF											
DESTINATION		MISSION		VAR		TH		DR		TRK		GS		WD		WS		ALT		TAS		LEG / TOT DIST		LEG / TOT TIME		PROP ETA		ATA		REMARKS	
WP	LAT / LON	RTE	MH	VAR	TH	DR	TRK	GS	WD	WS	ALT	TAS	LEG / TOT DIST	LEG / TOT TIME	PROP ETA	ATA	REMARKS														
1	5-17-38.7 0-63-08.1		119	9W	110						75K	250	264 264	1405 1405		2009	2008	→ FIR													
2	19-08.0 58-46.8		93	10W	183						5K	250	201 465	1450 1455		2058	2058	→ ②													
3	22-29.1 58-59.6		226	12W	214						✓	✓	112 577	1430 2+25		2124	2124	→ MUNRO													
4	24-02.3 60-07.5		281	11W	270						✓	✓	60 637	120 —		0130		→ EDWIN													
8	23-50.0 60-53.5		357	10W	347						✓	✓	240 240	1455 1455		0225		→ GECNI													
9	19-55.1 61-51.0		341	9W	331						✓	✓	155 395	1437 1437		0302		→ 66 VR													
1	17-38.7 0-63-08.1																														

MTE
TMW



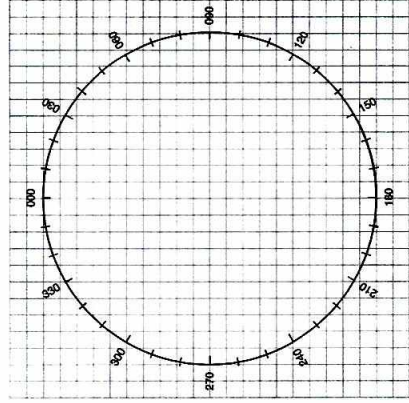
ENROUTE FUEL	
ENROUTE TIME	
ENROUTE FUEL (GK 5K/4.5K RULE)	
RESERVE AT DESTINATION	
REQUIRED RAMP	
ACTUAL RAMP FUEL	

TACTICAL (OFFSETA TO DESTINATION)	
DISTANCE (OFFSETA TO DEST)	500 500
ENROUTE TIME (OFFSETA TO DEST)	2400
BURN RATE (LBS/HR)	4500 5500
ENROUTE FUEL REQUIRED	9000 11K
RESERVE AT DESTINATION	1000 10K
FUEL AT OFFSETA	19K 21K

POINT OF SAFE RETURN	
ETP DISTANCE (TO DEPARTURE)	4500 5500
ENROUTE TIME (TO DEPARTURE)	
BURN RATE (LBS/HR)	
FUEL REQUIRED	
RESERVE AT DEPARTURE	
PSR FUEL	

CEX - TRUE BEARING METHOD				CEX SIGHT	
COMPASS TYPE	INS1	INS2	WET	GHT	
MCH (READING)				GHA	
- MTH (SEXTANT)				CORR	
CE				GHA	
- VAR				LONG PW - E	
DEV				EXACT LHA	
				LAT	
				BODY	
				DEC	
				HO/D	
				CORR	
				HC	
				Z	
				ZN	

CEX - ERB METHOD			
COMPASS TYPE	INS1	INS2	WET
MERB (DIAL 000)			
+ ZN			
= MTH			
MCH (READING)			
CE			
- VAR			
= DEV			



WIND FACTOR		
WINDSPEED	HEADWIND	TAILWIND
10	1.03	.97
20	1.08	.94
30	1.10	.92
40	1.14	.89
50	1.18	.87
60	1.22	.85

PRESS ALT					
10,000	1.0	1.0	.99	.99	
20,000	.99	.99	.98	.97	
30,000	.97	.96	.96	.95	
40,000	.96	.94	.92	.90	

TRUE AIRSPEED CROSS-CHECK						
TIME	IAS	PRESS ALT	"F" FACTOR	EAS	OAT	ITAS
1915	223	5.3	X	X	+21	244 243

DISTANCE REMAINING

ETP = .5(TOTAL DISTANCE x OUTBOUND WIND FACTOR)

ENTRY

Turn Pt	Type	Fix/Point	Latitude	Elev	Temp	MH	TH	Leg Time	Leg Dist
	DTD	Description	Longitude	MV	FF	MC	TC	Clock Time	Total Dist
1	ST	SLVRA	S 17 38.69	1224F	+13C	156	147	00+00+00	0.0
	M SLVR	VIRU VIRU INTL	W063 08.12	9.2W	0	156	147	00+00+00	0.0
		level off	S 17 46.87	unk	+5C	120	110	00+03+47	22.0
	M		W062 46.48	9.6W	1000	120	110	00+06+47	22.0
2		VIR/E118265	S 19 08.02	unk	+5C	120	110	00+58+04	241.9
	M FIR	VIRU VIRU	W058 46.77	12.5W	1000	120	110	01+01+51	264.0
3			S 22 29.03	unk	+5C	196	188	00+43+10	200.7
	M 2		W058 59.64	11.4W	1000	196	188	01+50+01	464.7
4		MUNROW	S 24 02.25	unk	+5C	225	214	00+26+52	111.9
	M MUNR	MUNRO	W060 07.50	9.8W	1000	225	214	02+16+53	576.6

EXIT

Turn Pt	Type	Fix/Point	Latitude	Elev	Temp	MH	TH	Leg Time	Leg Dist
	DTD	Description	Longitude	MV	FF	MC	TC	Clock Time	Total Dist
1		EDVIM/W	S 23 50.00	unk	+5C	356	347	00+00+00	0.0
	M EDVIM	EDVIM	W060 53.50	9.2W	1000	356	347	00+00+00	0.0
2		GERN/W	S 19 53.06	unk	+5C	356	347	00+57+38	240.2
	M GERNI	GERNI	W061 51.00	9.6W	1000	356	347	00+57+38	240.2
3		SLVRA	S 17 38.69	1224F	+5C	341	331	00+37+02	154.3
	M SLVR	VIRU VIRU INTL	W063 08.12	9.2W	1000	341	331	01+34+40	394.4

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